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INSTITUTIONAL REPOSITORIES IN THE LIBRARIES OF THE INSTITUTIONS OF HIGHER EDUCATION OF THE KHARKIV METHODOICAL ASSOCIATION OF UKRAINE

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Abstract:

The Kharkiv methodical association of the libraries of the state institutions of higher education of Ukraine consists of 36 libraries. These are university libraries of the Eastern Ukraine: 22 libraries in Kharkiv, 4 libraries in Sumy, 6 libraries in Poltava and 1 library in Glukhiv. Five libraries of the state institutions of higher education have the institutional repositories. The first repository has appeared at Kharkiv National Academy of Municipal Economy <http://www.ksame.kharkov.ua/> in 2007. Its purpose is to provide the educational process at the academy and first of all to make for students the all necessary facilities for studying. The academy digital repository works on the base of EPrints 3 program and includes more than 15000 documents. In January 2009 Belgorod declaration on the supporting of the open electronic university archives of the Border Byelorussian, Russian and Ukrainian Consortium was signed. 10 classical universities are the members of this Consortium. V.N.Karazin Kharkiv National University supported the declaration on supporting and developing of electronic archives. The project "ELibUkr. Electronic Library. Knowledge centers at the universities of Ukraine" started in Ukraine in 2009. V.N.Karazin Kharkiv National University was one of the first universities that took part in this project. In 2009-2010 the institutions of higher education from Kharkiv Association have joined this project: Sumy State University and Ukrainian Academy of Banking. Kharkiv National University of Radioelectronics (<http://www.kture.kharkov.ua>) has joined this project in 2011. Archive of Kharkiv National University of Radioelectronics Elar KhNURE uses DSpace software. The scientific and educational publications of the lectures, university reference information materials and periodicals are represented in it. The Electronic Archive of Sumy State University eSSUIR – Electronic Sumy State University Institutional Repository (<http://www.essuir.sumdu.edu.ua>) is actively filling up. In March 2011 there were 3500 articles but as of end of April 2011 there were already 8000 articles. The Academy electronic archive eUABIR – Electronic Ukrainian Academy of Banking of the National Bank of Ukraine Institutional Repository – consists of 7 collections and there were posted 1700 publications by March 1, 2011. Archive uses the DSpace software. The electronic archive of the Ukrainian Academy of Banking of the National Bank of Ukraine in Sumy eUABIR – Electronic Ukrainian Academy of Banking of the National Bank of Ukraine Institutional Repository – <http://dspace.academy.sumy.ua> – consists of 7 collections and there were posted 1700 publications by March 1, 2011. Archive uses the DSpace software. The electronic archive of V.N.Karazin Kharkiv National University eKhNUIR (<http://www.dspace.univer.kharkov.ua/>) was registered in May 2009. The archive functions on the base of DSpace 1.5.1 software. According to the "Webometrics" rating data V.N.Karazin Kharkiv National University is on the 5th place among the Ukrainian institutions of higher education. In January 2011 "Webometrics" published the rating of the institutional repositories of the world, V.N.Karazin Kharkiv National University repository ranks 639th among the electronic archives of the world. The main task of the libraries now is to prove to the scientists that archiving their research works in the institutional repository is the necessary thing.

The Kharkiv methodical association of the libraries of the state institutions of higher education of Ukraine consists of 36 libraries. These are university libraries of the Eastern Ukraine: 22 libraries in Kharkiv, 4 libraries in Sumy, 6 libraries in Poltava and 1 library in Glukhiv.

The general book collection of these libraries amounts to 22 662 768 documents.

For the last 20 years the libraries of the institutions of higher education of Ukraine in addition to the traditional library types of work have actively introduced in their work the new technologies, automated the libraries, created new electronic catalogues and for the last three years the libraries began to open institutional repositories.

There are 3 648 725 bibliographic records represented in the electronic catalogues of the association.

But only five libraries of 36 libraries have institutional repositories.

The goals of all electronic archives in the institutions of higher education are the same:

- To provide the storage, systematization and saving of the university community's intellectual products in the electronic form
- To promote spreading of these materials in the international scientific and educational space
- To promote science and education of Ukraine and the world by forming, saving and giving an Open access to the scientific information, researches of the universities to the **Ukrainian and the world scientific community**
- To motivate Ukrainian informational, scientific and educational community to active actions and cooperation toward open access to the universities scientific information resources for the social transformation of the role of science in the modern society.

The first electronic archive has appeared at Kharkiv National Academy of Municipal Economy <http://www.ksame.kharkov.ua/>.

More than 16 000 students study at the academy, the academy is training personnel for municipal administration, construction, transport, electric power, water and gas economy, city ecology, hotel management and tourism, improvement of the ecological cleanness of cities and communities. 500 lecturers, 70 professors and PhDs, more than 300 candidates of science teach in academy.

8 scientific schools that have international level and 11 industrial research laboratories work in the academy.

The library collection numbers more than 882 000 volumes. The electronic catalogue has 51310 records of the active library stock, the information service room is opened for users where 52 computers with the local academy network and Internet access are available.

The repository exists since 2007. Its purpose is to provide the educational process at the academy and first of all to make for students the all necessary facilities for studying.

The academy digital repository works on the base of EPrints 3 program that was developed in Southampton University and now is freely spread. There are electronic versions of the professors' lecture abstracts, tutorials and methodical works are in the repository.

The Internet address of the repository with the full text resources is <http://eprints.kname.edu.ua>

There are more than 15 000 publications in the digital repository. In 2010 the repository has filled up with 2199 full text versions. There are 64 dissertations, 122 papers, 598 images, 39 books, 109 monographs, 70 patents, 4430 articles from the academy scientific collection "Communal economy of cities" which the academy and the International scientific technical magazine "Lightning technology and electroenergy" publish, besides there are 8498 electronic versions of the tutorials, abstracts in the repository as on the 1st of March 2011. The repository stocking carries out as by the lecturers self archiving and with the help of librarians. The attendance is about 1 500 users in a day. The Digital repository is registered in the International ROAR list.

In January 2008 **Belgorod declaration on Open access** supporting of the open electronic university archives of the Border Byelorussian, Russian and Ukrainian Consortium was signed. 10 classical universities are the members of this Consortium. **V.N.Karazin Kharkiv National University** supported the declaration on supporting and developing of electronic archives.

The project "**ELibUkr. Electronic Library. Knowledge centers at the universities of Ukraine**" started in Ukraine in 2009. V.N.Karazin Kharkiv National University was one of the first universities that took part in this project.

In 2009-2010 the institutions of higher education from Kharkiv Association have joined this project: Sumy State University and Ukrainian Academy of Banking. Kharkiv National University of Radioelectronics (<http://www.kture.kharkov.ua>) has joined this project in 2011.

On October 22, 2010 the project of the open electronic archive **Elar KhNURE** (<http://open-archive.kture.kharkov.ua>) was presented at the meeting of the University of Radioelectronics

Academic Council. The stages of the archive creation and adoption were: working group creation, the group includes the library director, the university information center director, the head of the student group "Programmer" and the head of the university innovation and marketing department.

The computer park of the University of Radioelectronics consists of 1500 machines with Internet access for educational and scientific purposes. The library has 10 of them. There are 14 computer rooms for study and 60 rooms at the departments. All of them have an access to Internet via the university fiber-optic network, including computers in the hostels. There are several servers at the university and library, electronic catalogue and the electronic library are based on them. In addition, there is general university wireless Internet at the university. Three 60 Mb autonomous channels provide network security. The university has the video conference room.

Elar KhNURE archive uses DSpace software. 6 collections with scientific and educational publications of the lectures, university reference information materials and periodicals are represented in it. The library promotes the electronic archive, carries out explanatory work and asks professors and scientists to public their own works in the repository.

The Electronic Archive of Sumy State University **eSSUIR – Electronic Sumy State University Institutional Repository** (<http://www.essuir.sumdu.edu.ua>) is actively filling up. In February 2011 there were 2800 articles but as of March 1, 2011 there were already 3500 articles.

According to the **WEBOMETRICS** rating data Sumy State University is on the 7th place in the World Internet rating among the Ukrainian institutions of higher education (as of January 2011). About 22 000 students study at the university at the various study forms and the educational and qualifying levels. Trainings are held on 23 branches of knowledge, which have 36 areas with 59 specialties. To carry out the scientific researches a corresponding scientific infrastructure was created and it includes 49 scientific research institutions, centers and laboratories. There are 10 scientific schools developing at the university.

The university library <http://library.sumdu.edu.ua> has 2.5 million documents. More than 60 000 specimens are received every year and 50% of them are provided by the university publishing house. There are no traditional card catalogues that are still represented in 95% of libraries in Ukraine. In the electronic catalogue the amount of records is near 270 000. Also WiFi zones are available in the library. The readers have an opportunity to work with, Oxford electronic journals; they have an access to dissertations of the Russian scientists, EBSCO, MEDLINE scientific databases, URAN network scientific and educational resources in the virtual reading room. The library is opened for all residents of Ukraine; as of January 2011 the library has about 20000 readers, 18 623 of them are students.

The Electronic Archive of Sumy State University collects, preserves, distributes and provides the long-term, constant and reliable access to the university lecturers, staff members and students scientific works. eSSUIR is a resource of open access, which is located on the university server in the Internet and is available anywhere at any time by the address <http://www.essuir.sumdu.edu.ua>. The Electronic Archive of Sumy State University is filled up with the following materials: scientific publications of university staff members and students, the articles from the scientific journals, study and methodical works. The supervisor's recommendation is required for the students publications. There are 12 chapters, 3503 publications, 4286 authors, 233 abstracts and 2166 scientific articles from the university Visnyk in the archive as of March 1, 2011.

Annually the Ukrainian Library Association organizes a contest "Library of the Year". In 2010 the Scientific Library of the Ukrainian Academy of Banking of the National Bank of Ukraine in Sumy won the contest. The Academy is one of the youngest higher educational institutions in Ukraine. In February 1996 the Cabinet of Ministers of Ukraine signed the Resolution about the Academy opening. Now the academy is among the best ten economic educational institutions in Ukraine, the specialists training is conducted at the 14 departments. In December 2009 a new library building with the most modern equipment and the whole spectrum of innovations was opened. The Academy electronic archive eUABIR – Electronic Ukrainian Academy of Banking of the National Bank of Ukraine Institutional Repository – consists of 7 collections and there were posted 1700 publications by March 1, 2011. Archive uses the DSpace software.

The oldest library in Kharkiv Library Association is the library of V.N.Karazin Kharkiv National University. The library collection numbers about 3,4 million specimens and there are 1600 readers in the electronic registration card index, more than 1 million books are issuing to

readers annually. The Central Scientific Library has 100 computers, 44 of them have Internet access, thanks to the library program Liber-media the all work processes are automated in the library. The library is creating and developing two large databases: the electronic catalogue and the electronic archive of the university. Today the electronic catalogue numbers 623 000 titles and 827 000 specimens.

The electronic archive of V.N.Karazin Kharkiv National University eKhNUIR (<http://www.dspace.univer.kharkov.ua/>) was registered in May 2009.

The archive functions on the base of DSpace 1.5.1 software (it is a software for digital repository with open code, it was developed at Massachusetts Institute of Technology). eKhNUIR is registered in the International open access catalogues Open DOAR and Open ROAR.

1 900 documents were brought to the university electronic archive eKhNUIR. The electronic archive was made by the institutional repository type: communities are the faculties, the university scientific research institutes and the library. The library staff pays great attention to popularization of the electronic archive at the university. The introductory lectures are conducted at the all faculties of the university. The main way to fill up the electronic archive is self archiving of the research works by the scientists and professors, but only 6% of the works are archived by authors, that is why the library foresaw that some scientists might have problems working with the archive software. It was decided that the library should take responsibility to help them to archive their works and the library specialist helps everyone and gives the individual consultations.

The importance of the archive development is reflected in the resolutions of the Academic Council of the university. The Program of V.N.Karazin Kharkiv National University development for 2010-2020 years provides full support for the electronic archive of the university in terms of the number of the scientific publications increasing.

The work with the open access is carried out in two parallel projects: project "ElibUkr – Electronic Library/Knowledge Centers network" that has started in January 2009 by the initiative of the Kyiv Mohyla Foundation of America; and the project of the Border Consortium of the classical universities of Ukraine, Russia and Byelorussia of the electronic archive creation.

In 2011 V.N.Karazin Kharkiv National University has the 5th position among the institutions of higher education of Ukraine in the rating of the world universities "Webometrics".

In January 2011 "Webometrics" published the rating of the institutional repositories of the world and presented the rating of 1120 repositories of various organizations: academies, institutions of higher education, scientific societies. V.N.Karazin Kharkiv National University repository ranks 639th among the electronic archives of the world.

Open access brings to the authors wide spread of research results, to the readers it brings access to the literature, to the libraries it helps to fill the users information needs and well-organized electronic collections and to the universities it brings the rating upgrade. Benefits are obvious. The main task is to prove to the scientists that archiving their research works in the electronic archive is the necessary thing.

From time to time the library conducts surveys among its readers. When the survey for students was conducted we found out that they:

- want to have the possibility to use textbooks in electronic form
- want to use full-text electronic variant outside the university
- ask to increase an access to the electronic journals.

The students actively support the idea of the open society, they have no doubts on the articles publishing in the repository. And the Student research society actively works with the electronic archive.

Another matter is the scientists. For the present the basic proposal of our scientists is as follows: "First I want to publish my work in the reputable scientific journal and then may be I will publish it in the open access".

Some time ago the library conducted the online survey for its users by means of documents service Google. And the results are the follows:

- 71% of users read the full text books in the Internet
- 82% of the respondents agree to read digitized full-text versions if the printed book is not in the library at the moment
- 43% of the respondents know about the electronic archive
- but 55% of the respondents don't want to archive their works yet.

About 160 000 pages were looked through in the repository, about 30 000 attendances from 78 countries were made, 22 000 of them were from Ukraine, the others from Russia, Belarus, Kazakhstan, Great Britain, USA, Germany, the Netherlands, Argentina, Israel etc from June 2009 till March 2011.

The university librarians have their own motto: „To know where you want to go you should know where you want to come to. And if you do not stop halfway you surely get somewhere”.

V.N.Karazin Kharkiv National University development program for 2010-2020 years states the full support of the open access and the university electronic archive development for the further integration of science into European and world scientific community.

In February 2011 the Central Scientific Library of V.N.Karazin Kharkiv National University has received the letter from the Digital Repository Federation that says that in Japan more than 150 academic institutions have introduced institutional repositories (IRs) and over 700,000 full-text scholarly articles are open to the public via a national portal site known as JAIRO (Japanese Institutional Repositories Online). This is a result of the CSI Institutional Repositories Program that has been implemented by the National Institute of Informatics (NII) since 2005, and various initiatives have also been conducted along with subsequent rising momentum for the introduction of repositories among higher education institutions.

Digital Repository Federation (DRF) is a repository support program that was initiated in 2006 as a part of the national program.

In Japan Hokkaido University (this university has the 5th place in the rating of the world universities), Chiba University and Kanazawa University have established the country's first IR in 2004. Since then, more than 150 universities and research institutions have set up IRs. As of 2011, a total of 760,000 research papers are accessible through IRs across Japan.

The Digital Repository Federation gives the information to the Ukrainian researchers: <http://drf.lib.hokudai.ac.jp>

The terrible tragedy in Japan has attracted worldwide attention. Responding to the terrible events the international open access movement reveals information that may be helpful for the people affected: medical, referential and on the other relevant subjects. The thematic collection “Emergency” has been formed in the Kharkiv university electronic archive eKhNUIR, where the materials which may be useful in whatever complex situation are collected.

The Ukrainian librarians altogether support the international open access movement and popularize it among the university community.